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CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
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For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: BISPECIFIC MOLECULE COMPRISING AN ANTI-CR1 ANTIBODY CROSS-LINKED TO AN ANTIGEN-BIND-  
ING ANTIBODY FRAGMENT

(57) Abstract: The invention provides a bispecific molecule comprising an antibody that binds a C3b-like to one or more anti-  
gen-binding antibody fragments, each of which binds an antigenic molecule. The invention also provides methods of producing  
such bispecific molecules and to therapeutic uses of such bispecific molecules. The invention further provides bispecific molecules  
in which the antigen-binding antibody fragment binds the protective antigen protein of *Bacillus anthracis* (Anthrax) exotoxin for  
treatment of Anthrax infection.

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 9635-050-228	<b>FOR FURTHER ACTION</b>	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US03/29065	International filing date ( <i>day/month/year</i> ) 16 September 2003 (16.09.2003)	(Earliest) Priority Date ( <i>day/month/year</i> ) 16 September 2002 (16.09.2002)
Applicant ELUSYS THERAPEUTICS, INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the Report**

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

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- ☐ contained in the international application in written form.
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- ☐ furnished subsequently to this Authority in written form.
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- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_

- ☐ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.

☒ None of the figures

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/29065

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12P 21/08; A61K 39/395

US CL : 530/387.3; 424/136.1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 530/387.3; 424/136.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,487,890 A (TAYLOR et al.) 30 January 1996 (30.01.1996), see entire patent.	1-93
Y	US 5,879,679 A (TAYLOR et al.) 9 March 1999 (09.03.1999), see entire patent.	1-93
Y	US 5,470,570 A (TAYLOR et al.) 28 November 1995 (28.11.1995), see entire patent.	1-93



Further documents are listed in the continuation of Box C.



See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

28 June 2004 (28.06.2004)

Date of mailing of the international search report

26 AUG 2004

Name and mailing address of the ISA/US

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**INTERNATIONAL SEARCH REPORT**

PCT/US03

**Continuation of B. FIELDS SEARCHED Item 3:**  
EAST; STN Medline, Embase, Biosis, Scisearch

**TERMS:** C3b, complement, bispecific, antibody, anthrax

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**INTERNATIONAL SEARCH REPORT**

PCT/US05

**Continuation of B. FIELDS SEARCHED Item 3:**  
EAST; STN Medline, Embase, Biosis, Scisearch

**TERMS:** C3b, complement, bispecific, antibody, anthrax